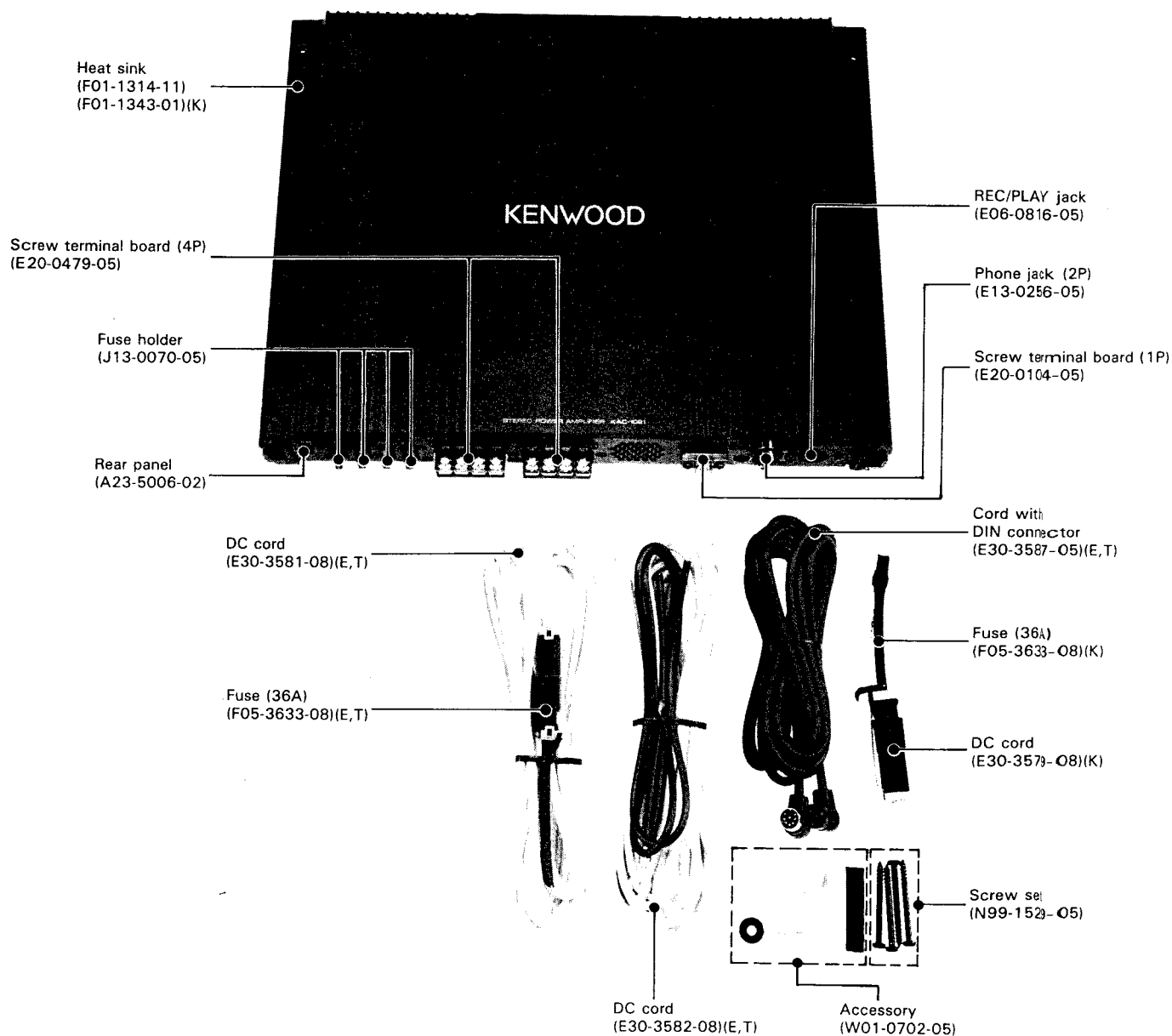


KAC-1021

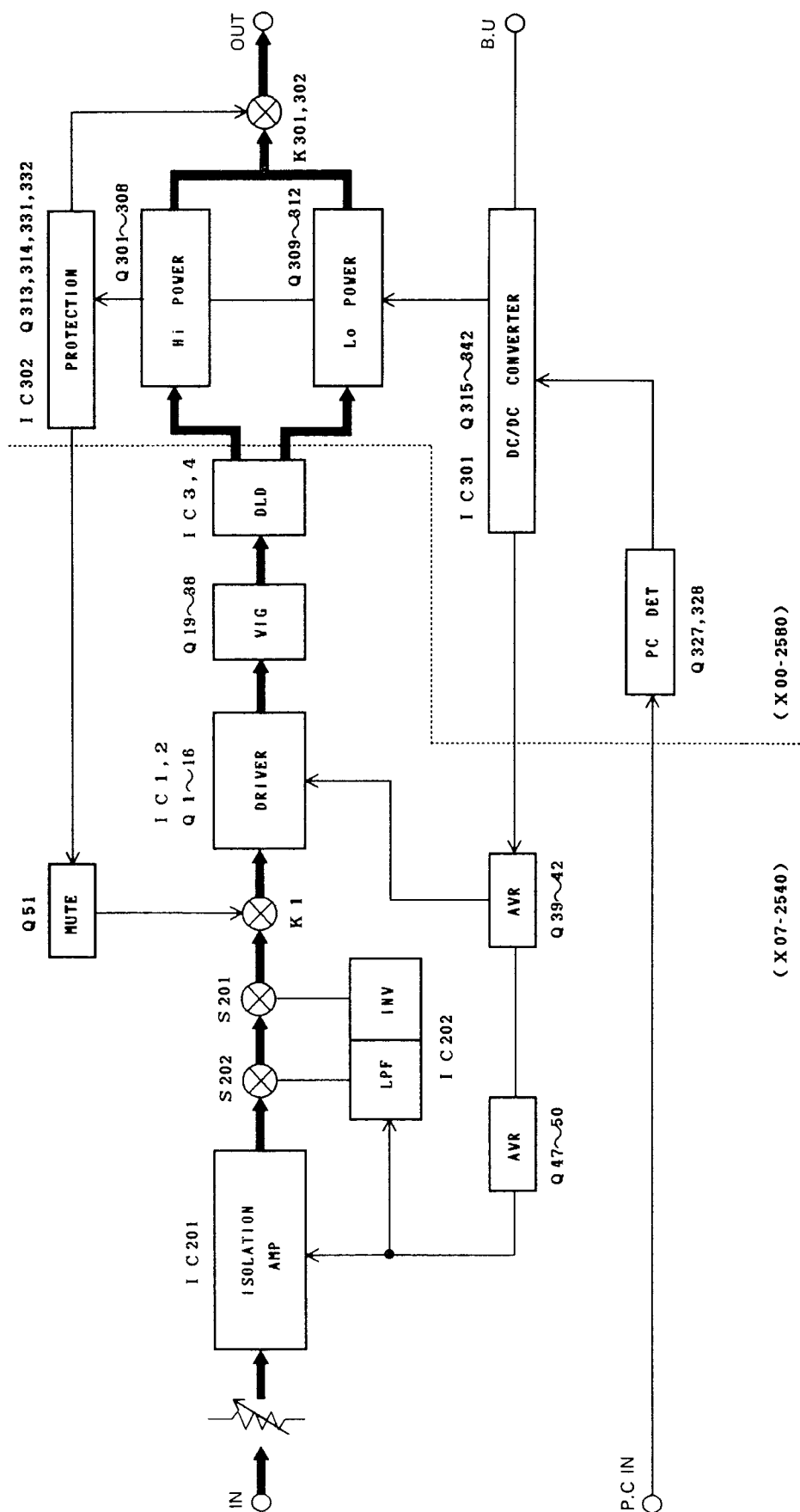
SERVICE MANUAL

KENWOOD

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B51-6090-00(T) 2982



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

FUNCTION OF EACH SEMICONDUCTOR'S

Power amplifier unit (X07-2540-10)

Ref. No.	Component	Use/Function	Operation/Condition/Compatibility
IC1	μ PA68H	Class-A first stage	
IC2	μ PA68H	Class-A first stage	
IC3	TA2030 * 1	DLD switching	
IC4	TA2030 * 1	DLD switching	
IC201	KKN01	Isolation amplifier	
IC202 (1/2)	NJM5532D-D	Low pass filter BTL phase inversion	For sub-woofer
IC202 (2/2)			
Q1 ~ Q4	2SC945(A)	Class-A first stage	
Q5 ~ Q8	2SA733(A)	Class-A second stage	
Q9,Q10	2SC2632	Class-A cascode	
Q11,Q12	2SC2632	Class-A third stage	
Q13,Q14	2SA1124	Class-A current mirror	
Q15,Q16	2SC2632	Class-A third stage	
Q19 ~ Q26		Cascode bootstrap	
Q27 ~ Q34		Predriver	
Q35 ~ Q38		Cascode bootstrap	
Q39 ~ Q42		Constant voltage circuit	For class-A
Q43,Q44		Constant current circuit	Class-A ripple elimination circuit
Q45,Q46	2SC945(A)	Constant current circuit	Class-A first stage constant current circuit
Q47 ~ 50		Constant voltage circuit	For sub-woofer and isolation amplifier
Q51	2SA992	Delay circuit	Shorts the input side for protection relay operation.

Power supply unit (X00-2580-10)

Ref. No.	Component	Use/Function	Operation/Condition/Compatibility
IC301	μ PC494C	Pulse generation	Generates the DC/DC conversion pulse.
IC302	μ PC1237HA	Protection IC	Power ON/OFF muting, detection of DC leak to speaker terminal, DC detection with input ground floating, and control over relays against overload at time of ASO detection <ul style="list-style-type: none"> When 110°C is detected by TH1, controls over the relay and a reed relay, while when 120°C of a PC board is detected by TH4, controls over the relay and a reed relay. (No.4 pin and No.1 pin)
Q301 ~ Q308		High output side power	High output side final transistors
Q309 ~ Q312		Low output side power	Low output side final transistors
Q313,Q314	2SC2631	ASO detection	With overload, limits the input for protection.
Q315 ~ Q318	2SC2654	Switching	DC/DC conversion driver stage
Q319 ~ Q326	2SC4503	Switching	DC/DC conversion power stage
Q327,Q328		Switching	Supplies power to IC301 by P-CON.
Q329,Q330	2SC3419	Bias	Final transistor temperature compensation
Q331	2SA992	Switching	Transmits the ASO detection signal to IC302.
Q332	2SD1266	Constant current circuit	Power relay drive
Q333,Q334		Switching	Turns the fan ON when TH2 detects 60°C.
Q339 ~ Q342	2SC4503	Switching	DC/DC conversion power stage
Q343	2SA733(A)	Switching	Turns the relays OFF when TH4 detects 120°C

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette deck.							
1	IDLE CURRENT	—	Connect a DC voltmeter to: TP301 (L,R)	VOLUME: 0	VR301 (L) VR302 (R)	3mV	(a)

(Note) The DC power shall have a large capacity (of 10 A or more). If it is smaller, the DC-DC converter may not operate.

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINT L'ALIGNEMENT	ALIGNER POUR	FIG.
Raccorder une platine à cassette.							
1	COURANT DE POLARISATION	—	Raccorder un voltmètre CC à: TP301 (G,D)	VOLUME: 0	VR301 (G) VR302 (D)	3mV	(a)

(Remarque) L'alimentation CC doit avoir une grande capacité (de 10 A ou plus). Si elle est inférieure, le convertisseur CC CC risque de ne pas fonctionner.

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VERSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
Ein Kassettendeck anschließen.							
1	LEERLAUFSTROM	—	Einen Gleichstrom-Voltmeter anschließen an: TP301 (L,R)	VOLUME: 0	VR301 (L) VR302 (R)	3mV	(a)

(Hinweis) Die Gleichspannung muß eine hohe Kapazität (von 10 A oder mehr) aufweisen, weil sonst der Gleichstrom-Gleichstrom Konverter eventuell nicht arbeitet.

VOLTAGE TABLES

POWER AMPLIFIER UNIT
(X07-254X-XX)

Q1
E 4V
C —
B 4.7V

Q15
E —
C -1.8V
B —

Q29
E -1.2V
C -6.9V
B —

Q40
E 8.2V
C —
B —

Q48
E -16V
C —
B —

Q301, 303
E —
C 63V
B —

Q315, 317
E -1.4V
C 14.4V
B -1.2V

IC301
1 —
2 2.5V
3~7 —

Q2, 4~8, 10~12
14, 16, 20~22,
24, 28, 30, 32,
34, 45, 46

E —
C —
B —

Q19
E —
C 7.4V
B —

Q31
E 0.6V
C 6.9V
B —

Q41
E —
C —
B -0.6V

Q49
E 8.2V
C —
B 8.8V

Q302, 304, 306,
308, 310,
312~314,
316, 318, 320,
322, 324, 326,
328, 330,
332~334,
340~343

E —
C —
B —

Q319, 321, 339
E —
C 14V
B -1.4V

8 14V
9, 10 —
11, 12 14V
13~15 5V
16 —

Q3
E —
C —
B 4.7V

Q23
E 6.9V
C 63V
B —

Q33
E -0.6V
C -6.9V
B —

Q42
E -56V
C -63V
B —

Q50
E -8.2V
C —
B —

E —
C —
B —

Q323, 325
E —
C —
B -1.4V

IC302
1~7 —

Q9
E —
C 54V
B 0V

Q25
E -6.9V
C -63V
B —

Q35
E 1.2V
C —
B 0.6V

Q43
E —
C —
B 48V

Q51
E 26V
C —
B —

Q305, 307
E —
C -63V
B —

Q327
E 14.4V
C 14V
B —

Q13
E —
C 1.8V
B 54V

Q26, 36, 38
E —
C -63V
B —

Q37
E -1.2V
C —
B -0.6V

Q44
E —
C -20V
B 48V

Q309
E 3mV
C —
B 0.6V

Q329
E -1.8V
C -0.2V
B —

Q27
E 1.2V
C 6.9V
B —

Q39
E 56.5V
C —
B —

Q47
E 16V
C —
B —

Q311
E —
C —
B -0.6V

Q331
E 26V
C —
B —

A vertical bar with alternating black and white segments, labeled 1 through 7 from top to bottom.

Refer to the schematic diagram for the values of resistors and capacitors -



PC BOARD (Foil side view)

POWER SUPPLY UNIT (X00-258X-XX)

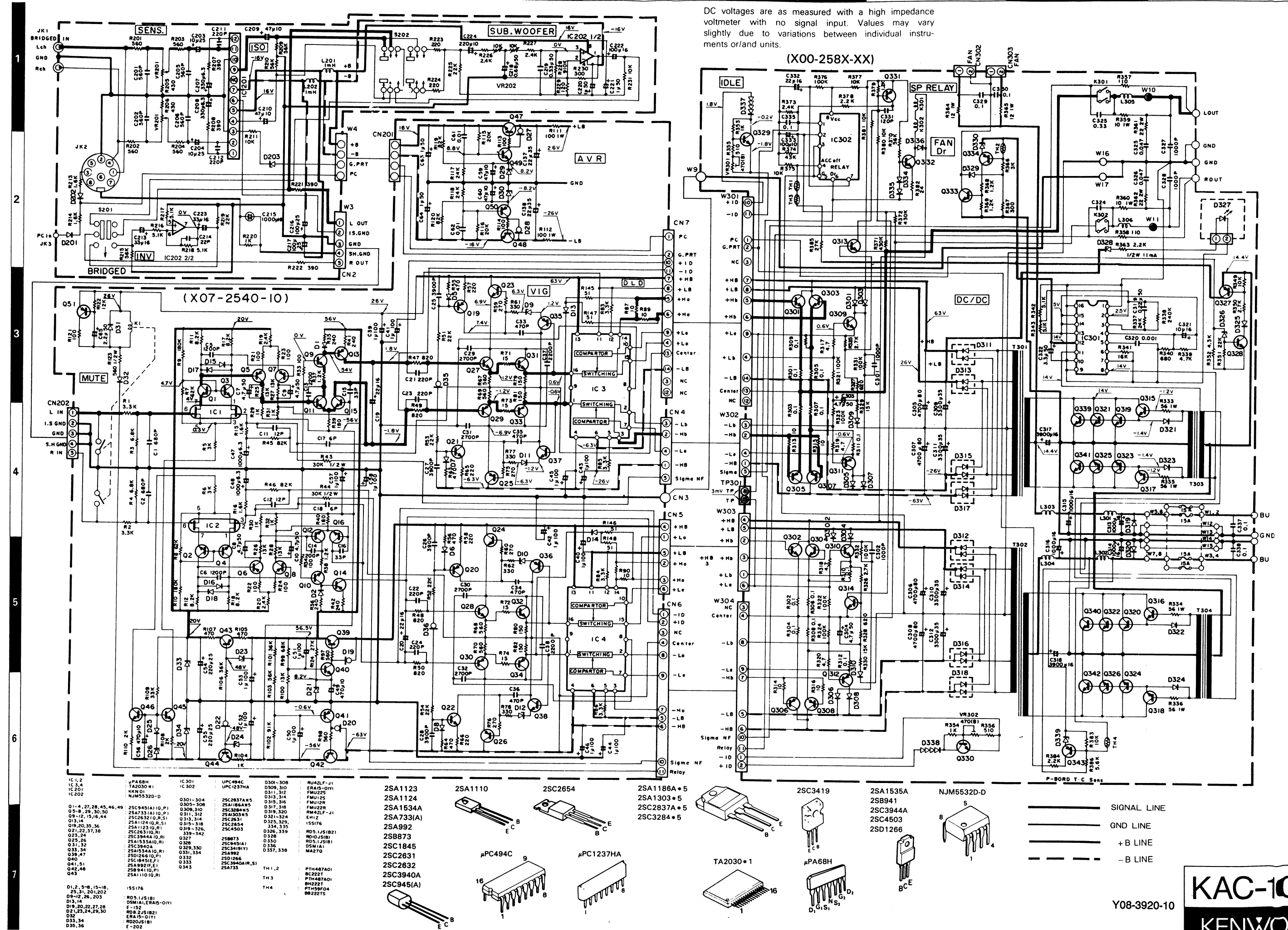
X00-2580-10 A/3
J25-7069-01

X00-B/3

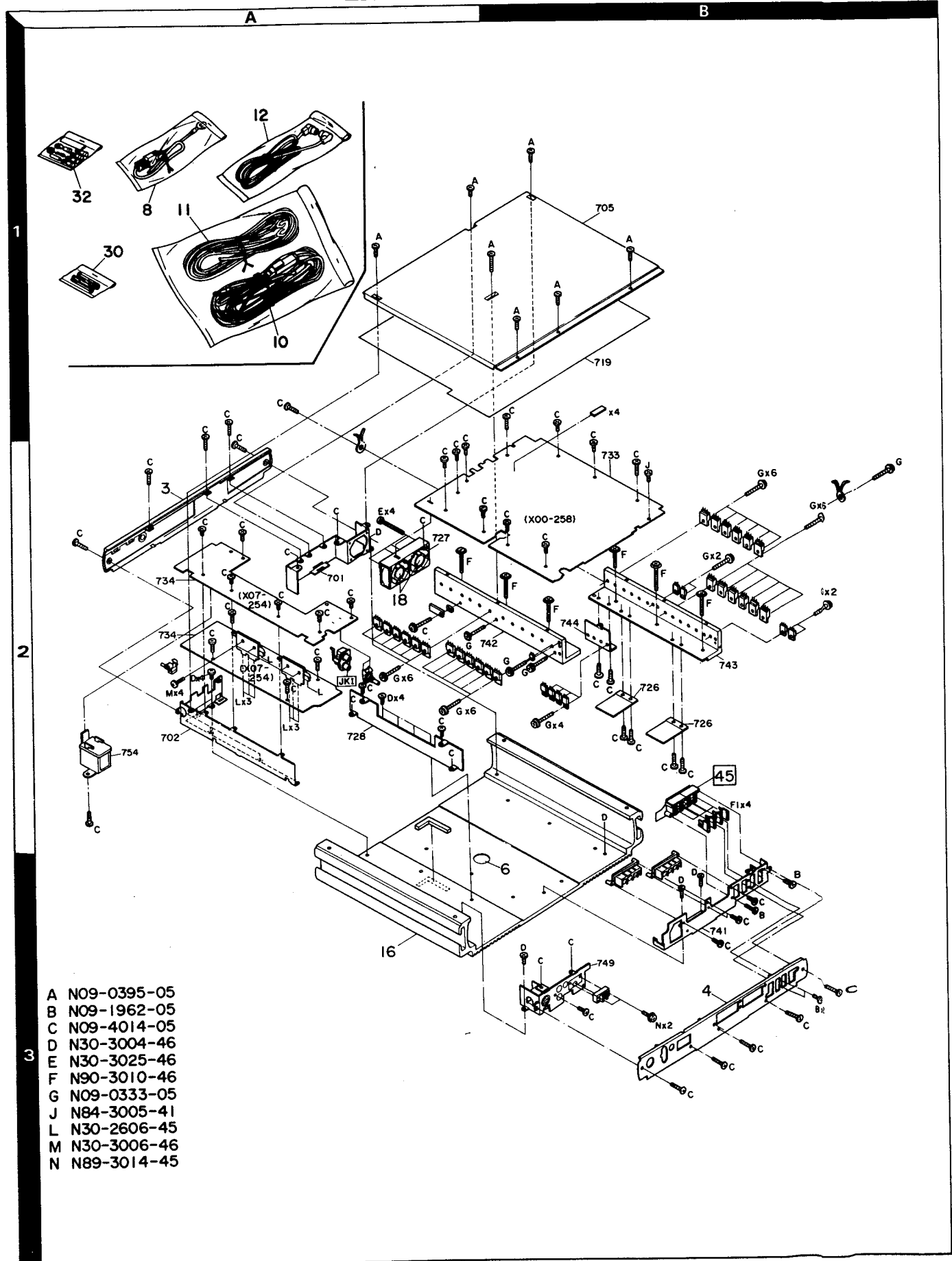
(a) No-signal current
3 mV
DC voltmeter

X00-
C9
0529
W305

Refer to the schematic diagram for the values of resistors and capacitors.



EXPLODED VIEW



11 Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

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KAC-1021						
3	2A	*	A20-7531-01	PANEL		
4	3B	*	A23-5006-02	REAR PANEL		
6	3A, 3B		B19-0818-04	LIGHTING BOARD		
-			B44-2163-04	UPC CODE LABEL		
-			B46-0100-10	WARRANTY CARD		
-		*	B50-7924-00	INSTRUCTION MANUAL	K	
-		*	B50-7925-00	INSTRUCTION MANUAL	ET	
-			B58-0803-13	CAUTION CARD (210X148,DBP)		
-		*	B58-1210-04	CAUTION CARD	ET	
8	1A	*	E30-3579-08	DC CORD	K	
10	1A	*	E30-3581-08	DC CORD	ET	
11	1A	*	E30-3582-08	DC CORD	ET	
12	1A		E30-3587-05	CORD WITH DIN CONNECTOR	ET	
16	3A	*	F01-1314-11	HEAT SINK		
16	3A	*	F01-1343-01	HEAT SINK	ET	
18	2A	*	F09-1202-05	FAN	K	
F1	3B	*	F05-1537-05	FUSE (15A フレート"カ"タ)		
F3		*	F05-3633-08	FUSE (36A)		
-		*	H01-9075-03	ITEM CARTON CASE		
-		*	H03-3089-03	OUTER CARTON CASE		
-			H10-4310-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
-			J61-0067-05	WIRE BAND		
30	1A		N99-1529-05	SCREW SET		
A	1A, 1B		N09-0395-05	TAPTITE SCREW (3X6, +ハ"イント"ツメ)		
B	3B		N09-1962-05	TAPTITE SCREW (M2.6X6 +ナ"ハ")		
C	2A, 2B		N09-4014-05	TAPTITE SCREW (3X8, ナ"ハ")		
D	2A, 3B		N30-3004-46	PAN HEAD MACHINE SCREW		
E	2A		N30-3025-46	PAN HEAD MACHINE SCREW		
F	2A, 2B		N90-3010-46	PAN HEAD MACHINE SCREW		
32	1A	*	W01-0702-05	ACCESSORY		
POWER SUPPLY UNIT (X00-258X-XX: 0-10: K, 2-71: ET)						
D327			B30-1321-05	LED(RED)		
C301, 302			CF92FV1H102J	MF 1000PF J		
C303, 304			CE04DW1H4R7M	ELECTRO 4.7UF 50WV		
C305-308		*	C90-2521-05	ELECTRO 4700UF 80WV		
C309-312		*	C90-2520-05	ELECTRO 3900UF 42WV		
C313-316			C90-1403-05	ELECTRO 1000UF 16WV		
C317, 318			C90-1634-05	ELECTRO 3900UF 16WV		
C319			CF92V1H224J	MF 0.22UF J		
C320			CF92FV1H102J	MF 1000PF J		
C321			CE04DW1C100M	ELECTRO 10UF 16WV		
C322			CE04DW1H3R3M	ELECTRO 3.3UF 50WV		
C323			CF92V1H334J	MF 0.33UF J		
C324			CF92FV1H334J	MF 0.33UF J		
C325, 326			CF92FV1H473J	MF 0.047UF J		
C327, 328			CF92FV1H102J	MF 1000PF J		
C329, 330			CF92FV1H104J	MF 0.10UF J		

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C331 C332 C333 C335 C337, 338			CC45FSL1H121J CE04DW1C220M CE04DW1A101M CF92FV1H104J CF92FV1H104J	CERAMIC 120PF J ELECTRO 22UF 16WV ELECTRO 100UF 10WV MF 0.10UF J MF 0.10UF J		
JK1 ,2			E20-0479-05	SCREW TERMINAL BOARD(4P)		
45	3B		J13-0070-05	FUSE HOLDER		
L301-304 T301, 302 T303		*	L33-0331-05 L19-0504-05 L19-0505-05	CHOKE COIL TRANSFORMER FOR CONVERTER TRANSFORMER FOR CONVERTER		
C G J	2B, 3B 2A, 2B 2B	*	N09-4014-05 N09-0333-05 N84-3005-41	TAPTITE SCREW (3X8, ナヘ) TAPPING SCREW (3X12, + ロツツクサ) PAN HEAD TIPTITE SCREW		
R301-312 R313-316 R317-320 R333-336 R359, 360			R92-0205-05 RD14DB2H100J RD14DB2H4R7J RS14KB3A560J RS14KB3A100J	METAL-PLATE 0.1 K 2W SMALL-RD 10 J 1/2W SMALL-RD 4.7 J 1/2W FL-PROOF RS 56 J 1W FL-PROOF RS 10 J 1W		
R361, 362 R363 R364, 365 VR301, 302			RS14KB3D220J RD14DB2H222J RS14DB3A120J R12-0094-05	FL-PROOF RS 22 J 2W SMALL-RD 2.2K J 1/2W FL-PROOF RS 12 J 1W TRIMMING POT. (470 ヲ)		
K301, 302			S51-2078-05	MAGNETIC RELAY		
D301-308 D309, 310 D311, 312 D313, 314 D315, 316			RU4ZLF-J1 ERA15-01Y1 FMU22S FMU12S FMU12R	DIODE DIODE DIODE DIODE DIODE		
D317, 318 D319, 320 D321-324 D325 D326			FMU22R RM4ZLF-J1 EH1Z 1SS176 RD5.1JS(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D328 D329 D330 D334, 335 D336			RD10JS(B) 1SS176 RD5.1JS(B) 1SS176 DSM1A1	ZENER DIODE DIODE ZENER DIODE DIODE DIODE		
D337, 338 D339 IC301 IC302 Q301-304			MA27Q RD5.1JS(B2) UPC494C UPC1237HA 2SC2837A*5	VARISTOR ZENER DIODE IC(SWITCHING REGULATOR) IC(POWER AMP) TRANSISTOR		
Q305-308 Q309, 310 Q311, 312 Q313, 314 Q315-318			2SA1186A*5 2SC3284*5 2SA1303*5 2SC2631(Q,R) 2SC2654	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q319-326 Q327 Q328 Q329, 330		*	2SC4503 2SB873 2SC945(A)(Q,P) 2SC3419(Y)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q331 Q332 Q333 Q334 Q339-342		*	2SA992(F,E) 2SD1266 2SC3940A(R,S) 2SA992(F,E) 2SC4503	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q343 TH1 ,2 TH3 TH4		*	2SA733(A)(Q,P) PTH487A01BC222T PTH487A01BH222T PTH59F04BB222TS	TRANSISTOR POSITIVE RESISTOR POSITIVE RESISTOR POSITIVE RESISTOR		
POWER AMPLIFIER UNIT (X07-254X-XX: 0-10: K, 2-71: ET)						
C1 ,2 C5 ,6 C7 C8 C9			CK45FB1H681K CF92FV1H122J CE04DW1H4R7M CE04KW1H4R7M CE04DW1H4R7M	CERAMIC 680PF K MF 1200PF J ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV		
C10 C11 ,12 C13 ,14 C15 ,16 C17 ,18			CE04KW1H4R7M CC45FSL1H120J CF92FV1H222J CC45FSL1H330J CC45FSL1H060D	ELECTRO 4.7UF 50WV CERAMIC 12PF J MF 2200PF J CERAMIC 33PF J CERAMIC 6.0PF D		
C19 ,20 C21 -24 C25 -28 C29 -32 C33 -36			CE04KW1C220M CC45FSL1H221J CF92FV1H392J CF92V1H272J CK45FB1H471K	ELECTRO 22UF 16WV CERAMIC 220PF J MF 3900PF J MF 2700PF J CERAMIC 470PF K		
C37 ,38 C39 C40 -46 C47 ,48 C49			CF92FV1H222J CE04KW2A010M CE04DW2A010M C90-1643-05 CE04DW1A471M	MF 2200PF J ELECTRO 1.0UF 100WV ELECTRO 1.0UF 100WV ELECTRO 1000UF 6.3WV ELECTRO 470UF 10WV		
C50 -53 C54 ,55 C56 C57 ,58 C59 ,60			CE04DW2A010M CE04DW1E221M CE04DW1A471M CE04DW2A010M CE04KW1A470M	ELECTRO 1.0UF 100WV ELECTRO 220UF 25WV ELECTRO 470UF 10WV ELECTRO 1.0UF 100WV ELECTRO 47UF 10WV		
C61 ,62 C63 ,64 C65 C137 C138			CF92FV1H103J CE04KW1H010M CE04DW1H2R2M CE04KW1V220M CE04DW1V220M	MF 0.010UF J ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV ELECTRO 22UF 35WV ELECTRO 22UF 35WV		
C201,202 C203,204 C205,206 C207,208 C209,210			CK45FB1H561K C90-1638-05 CK45FB1H561K C90-1641-05 CE04DW1A470M	CERAMIC 560PF K ELECTRO 10UF 16WV CERAMIC 560PF K ELECTRO 330UF 6.3WV ELECTRO 47UF 10WV		
C211,212 C213 C214 C215 C216,217			CK45FB1H221K CE04DW1C330M CC45FSL1H220J C90-1630-05 CE04DW1E101M	CERAMIC 220PF K ELECTRO 33UF 16WV CERAMIC 22PF J NP-ELEC 1000UF 16WV ELECTRO 100UF 25WV		
C218 C219 C220,221 C222 C223			CE04CW1HR68M CE04DW1HR33M CE04DW1H010M CE04DW1C101M CE04DW1C330M	ELECTRO 0.68UF 50WV ELECTRO 0.33UF 50WV ELECTRO 1.0UF 50WV ELECTRO 100UF 16WV ELECTRO 33UF 16WV		

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C224			CE04DW1A221M	ELECTRO 220UF 10WV		
JK1	2A		E13-0256-05	PHONE JACK (2P)		
JK2			E06-0816-05	REC/PLAY JACK		
JK3		*	E20-0104-05	SCREW TERMINAL BOARD(1P)		
L201,202			L33-0344-15	CHOKE COIL		
C	3B		N09-4014-05	TAPTITE SCREW (3X8, 1/4")		
L	2A		N30-2606-45	PAN HEAD MACHINE SCREW		
M	2A		N30-3006-46	PAN HEAD MACHINE SCREW		
N	3B		N89-3014-45	BINDING HEAD TAPTITE SCREW		
R43 ,44		*	R92-2010-05	CARBON FILM RESISTOR		
R87 -90			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R111,112			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R123			RD14DB2H561J	SMALL-RD 560 J 1/2W		
VR201		*	R10-3633-05	POTENTIOMETER(20K)		
VR202			R10-3632-05	POTENTIOMETER(10K)		
K1			S51-2074-05	MAGNETIC RELAY		
S201		*	S31-2623-05	SLIDE SWITCH		
S202		*	S31-4643-05	SLIDE SWITCH		
D1 ,2			1SS176	DIODE		
D5 -8			1SS176	DIODE		
D9 -12			RD5.1JS(B)	ZENER DIODE		
D13 ,14			ERA15-01Y1	DIODE		
D15 -18			1SS176	DIODE		
D19 ,20			E-152	CONSTANT CURRENT DIODE		
D21			RD8.2JS(B2)	ZENER DIODE		
D22			E-152	CONSTANT CURRENT DIODE		
D23 ,24			RD8.2JS(B2)	ZENER DIODE		
D25			1SS176	DIODE		
D26			RD5.1JS(B)	ZENER DIODE		
D27 ,28			E-152	CONSTANT CURRENT DIODE		
D29 ,30			RD8.2JS(B2)	ZENER DIODE		
D31			1SS176	DIODE		
D32			ERA15-01Y1	DIODE		
D33 ,34			RD20JS(B)	ZENER DIODE		
D35 ,36			E-202	CONSTANT CURRENT DIODE		
D201,202			1SS176	DIODE		
D203			RD5.1JS(B)	ZENER DIODE		
IC1 ,2			UPA68H	DUAL FET		
IC3 ,4			TA2030*1	IC(L0/HI SWITCHING)		
IC201		*	KKN01	IC		
IC202			NJM5532D-D	IC(OP AMP X2)		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		
Q5 -8			2SA733(A)(Q,P)	TRANSISTOR		
Q9 -12			2SC2632(Q,R,S)	TRANSISTOR		
Q13 ,14			2SA1124(Q,R,S)	TRANSISTOR		
Q15 ,16			2SC2632(Q,R,S)	TRANSISTOR		
Q19			2SA1123(Q,R)	TRANSISTOR		
Q20			2SA1123(Q,R)	TRANSISTOR		
Q21 ,22			2SC2631(Q,R)	TRANSISTOR		
Q23 ,24			2SC3944A(Q,R)	TRANSISTOR		
Q25 ,26			2SA1535A(Q,R)	TRANSISTOR		
Q27 ,28			2SC945(A)(Q,P)	TRANSISTOR		

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q29 , 30 Q31 , 32 Q33 , 34 Q35 , 36 Q37 , 38			2SA733(A)(Q,P) 2SC3940A(R,S) 2SA1534A(R,S) 2SA1123(Q,R) 2SC2631(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q39 Q40 Q41 Q42 Q43			2SD1266(Q,P) 2SC1845(F,E) 2SA992(F,E) 2SB941(Q,P) 2SA1110(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q44 Q45 , 46 Q47 Q48 Q49			2SC2632(Q,R,S) 2SC945(A)(Q,P) 2SD1266(Q,P) 2SB941(Q,P) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q50 Q51			2SA733(A)(Q,P) 2SA992(F,E)	TRANSISTOR TRANSISTOR		

E: Scandinavia & Europe K: USA

P: Canada


U: PX(Far East, Hawaii)

T: England

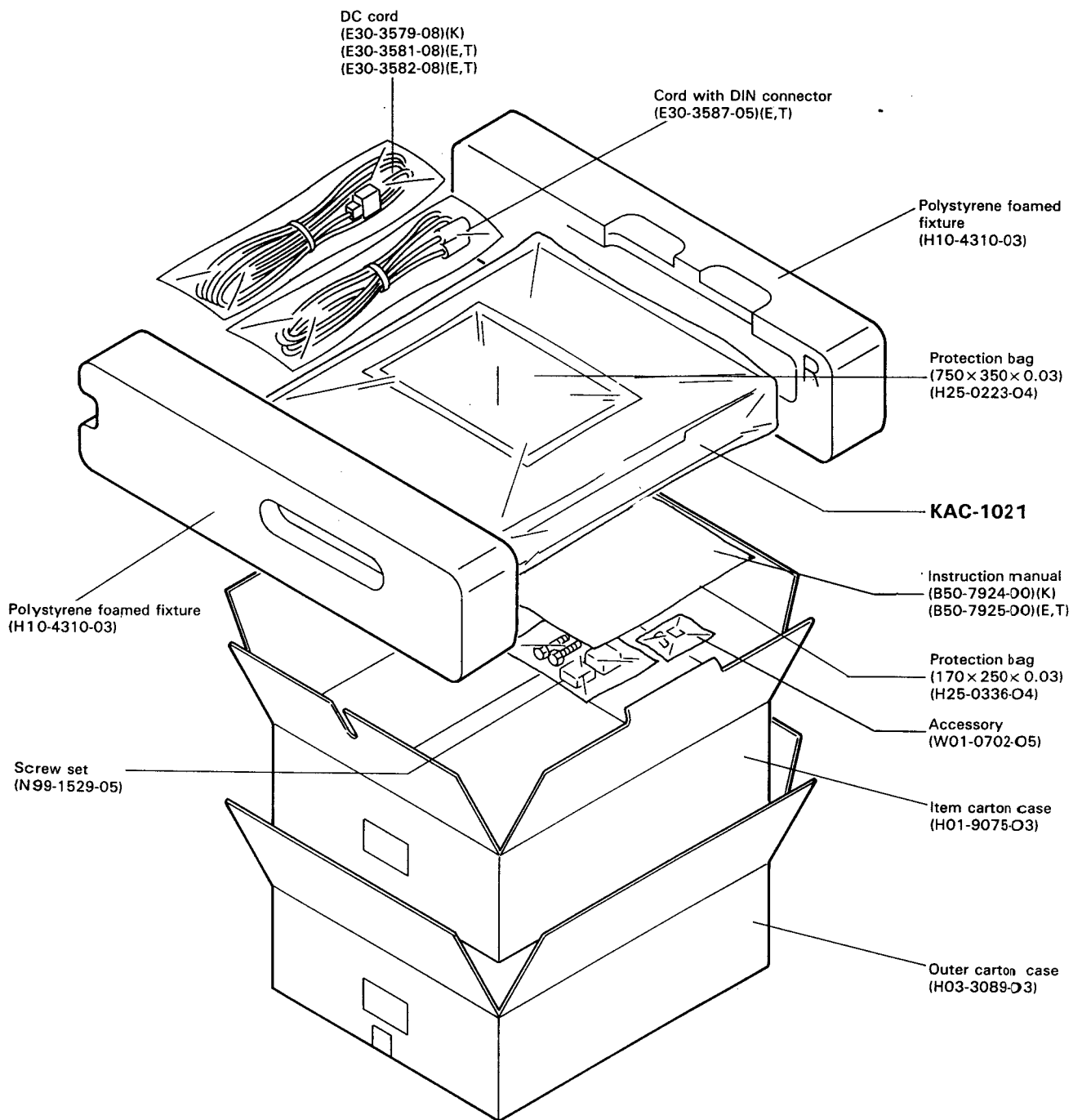
M: Other Areas

UE: AAFES(Europe)

X: Australia

 indicates safety critical components.

PACKING



MC-Service

SPECIFICATIONS

Audio section

Max Power Output	(NORMAL)	420 W × 2
	(BRIDGED)	840 W × 1
Power Output	(NORMAL)	220 W × 2 (4 Ω, 20 ~ 20 kHz, less than 0.08% THD)
	(BRIDGED)	440 W × 1 (4 Ω, 1 kHz, 0.08% THD)
Power Output	(NORMAL)	370 W × 2 (2 Ω, 1 kHz, 0.08% THD)
Frequency Response	.....	2 Hz ~ 100 kHz (− 3 dB)
Signal to Noise Ratio	.....	105 dB
Sensitivity (MAX)	.....	0.1 V (rated output)
Sensitivity (MIN)	.....	5.0 V (rated output)
Input Impedance	.....	10 kΩ
Damping Factor	.....	More than 5000 (100 Hz)
Sub Woofer Frequency	.....	30 ~ 150 Hz (VARIABLE)

General

Operating Voltage	.....	14.4 (11 ~ 16 allowable) V
Current Consumption (MAX)	.....	60 A
Dimensions	.....	400(W) × 55(H) × 300(D) mm (15-3/4) × (2-3/16) × (11-13/16) inch
Weight	.....	6.9kg 15.2 lb

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

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